

Module 2 Probability Review

Name _____

A cooler contains 2 cans of grape juice, 3 cans of lemonade, and 7 cans of orange juice. A can of juice is chosen without looking. Find each probability. (NOTE: The juice cans are NOT replaced after each pick).

1) $P(\text{lemonade})$ 2) $P(\text{orange juice})$ 3) $P(\text{grape juice})$

A die is rolled. Find each probability.

4) $P(5)$ 5) $P(2)$ 6) $P(2, 4, \text{ or } 6)$ 7) $P(3 \text{ or } 4)$ 8) $P(\text{not a } 6)$ 9) $P(7)$ 10) $P(\text{even \#})$ 11) $P(9)$

There are 4 grape, 2 strawberry, 3 lemon, and 7 lime gumballs in a bag. Suppose you select a gumball at random. Find each probability. (NOTE: The gumballs are NOT replaced after each pick!)

12) $P(\text{strawberry})$ 13) $P(\text{lemon or grape})$ 14) $P(\text{peppermint})$ 15) $P(\text{grape, strawberry, or lemon})$

Draw a tree diagram to find the number of outcomes and probabilities.

1 6) Allison has one red skirt, one yellow skirt, and one hot pink skirt. She also has one pair of black shoes and one pair of tennis. Allison also has a tank top, a T-shirt, and a sweater.

1 6a) How many different outfits can Allison wear?

1 6b) What is the probability that she will wear her hot pink skirt with black shoes?

1 6c) What is the probability that she will wear her tennis and her tank top?